

Mixed #

$2\frac{1}{2}$ - fraction

Whole number

Improper Fractions

$\frac{11}{5}$

Fraction

$\frac{1}{2}$ Numerator denominator

Conversion

$2\frac{1}{5} \Rightarrow \frac{11}{5}$

$3\frac{1}{3} \Rightarrow \frac{10}{3}$

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$\frac{12}{7} \div 1\frac{5}{7}$

Reducing

$\frac{4}{6} \Rightarrow \frac{2}{3}$ Lowest Terms

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$\div \frac{3}{4} \Rightarrow 0.75$ terminating decimal

$\frac{2}{3} \Rightarrow 0.\overline{667}$ repeating decimals

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$0.125 \Rightarrow \frac{125}{1000} \Rightarrow \frac{5}{40} \Rightarrow \frac{1}{8}$ unit fraction

$0.63 \Rightarrow \frac{63}{100}$

$1.36 \Rightarrow \frac{136}{100} = \frac{68}{50} = \frac{34}{25}$

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Multiply Fractions (Lowest Terms)

$\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} \Rightarrow \frac{2}{5}$

$\frac{2}{3} \times 1\frac{1}{6} =$

$\frac{2}{3} \times \frac{7}{6} = \frac{14}{18} \Rightarrow \frac{7}{9}$

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Dividing Fractions (reciprocal)

$\frac{2}{3} \div \frac{1}{6} \Rightarrow \frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$

$\frac{3}{5} \div \frac{2}{3} \Rightarrow \frac{3}{5} \times \frac{3}{2} = \frac{9}{10}$

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Addition } Subtraction (common denominator)

$$+ \frac{2^{\cancel{5}}}{3} + \frac{4^{\cancel{3}}}{5}$$

$$\frac{10}{15} + \frac{12}{15}$$

$$= \frac{22}{15}$$

$$\frac{2^{\cancel{5}}}{3} - \frac{4^{\cancel{3}}}{5}$$

$$\frac{10}{15} - \frac{12}{15}$$

$$= \frac{-2}{15}$$

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$$\frac{2^{\cancel{7}}}{3} - \frac{2^{\cancel{3}}}{7}$$

$$\frac{14}{21} - \frac{6}{21}$$

$$= \frac{8}{21}$$

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Integers

Multiplication (Like Terms = +ve)

$$(+3) \times (+5) = +15$$

$$(-3) \times (-5) = +15$$

(Different Terms -ve)

$$(+6) \times (-3) = -18$$

$$(-6) \times (+2) = -12$$

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Division Like Terms - +ve

$$(+15) \div (+3) = +5$$

$$(-16) \div (-2) = +8$$

Different Terms -ve

$$(+9) \div (-2) = -4$$

$$(-12) \div (+3) = -4$$

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Addition Integers

Same Sign

$$(+8) + (+2) = +10$$

$$(-8) + (-6) = -14$$

Different Signs

$$(+8) + (-2) = (+6)$$

$$(-6) + (+3) = (-3)$$

Add Terms keep the Sign

Subtract Terms keep Sign of the larger

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Subtract Terms (Add the Opposite)

$$(+3) - (+2) = (+1)$$

$$(-3) + (+6) = (+3)$$

$$(-6) + (+4) = (-2)$$

$$(+2) + (+6) = +8$$

$$(+3) + (+3) = +6$$

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Integers

p18 q1-5 (a, c, e, g)

p19 q1-5 (a, c, e)

6 ab

7 ac

Fractions

p14

q 3 ace, 4 ac, bac, 7 ac

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